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IN THE CLAIMS:

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1-6. (Cancelled)

(Previously Amended) The assembly according to claim 21, further comprising:
a pin displaceable with respect to the bobbin when an electric current flows through the
wire; and

a pin displacement calibration feature including a resilient element biasing the pin with
respect to the overmolded cap and a first locator adjusting the position of the resilient element
with respect to the overmolded cap.

8. (Original) The assembly according to claim 7, wherein the pin displacement
calibration feature further includes a second locator connecting the resilient element with respect
to the pin.

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9. (Original) The assembly according to claim 7, wherein the resilient element includes
a coil spring.

10. (Original) The assembly according to claim 7, wherein the first locator threadably
engages the overmolded cap.

11. (Previously Amended) The assembly according to claim 21, wherein the
overmolded cap further includes a locking feature adapted for releasable retaining an electrical
connector with respect to the connection body formation.

12. (Previously Amended) The assembly according to claim 21, wherein the
overmolded cap further includes a snap fastening feature adapted for securing the overmolded
cap to a mount.

13. (Original) The assembly according to claim 12, wherein the snap fastening feature is
adapted for enabling the connection body formation to be reoriented with respect to the mount.

14. (Original) The assembly according to claim 7, further comprising:
at least one bearing unit guiding displacement of the pin with respect to the cap;

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Sub F1 / a stator at least partially encapsulated by the overmolded cap and magnetically connected to a magnetic field created by the electric current flowing through the wire; and an armature portion of the pin responsive to the magnetic field.

15. (Original) The assembly according to claim 14, wherein the resilient element includes a coil spring, the pin displacement calibration feature further includes a second locator connecting the coil spring with respect to the pin, and the first locator threadably engages the overmolded cap.

16. (Original) The assembly according to claim 15, wherein the overmolded cap further includes a locking feature adapted for releasable retaining an electrical connector with respect to the connection body formation, and also further includes a snap fastening feature that enables the connection body formation to be reoriented with respect to a mount having a valve seat that engages the pin to control fluid flow.

17-20. (Cancelled)

21. (Currently Amended) A purge solenoid valve assembly having a valve driven by a solenoid, the assembly comprising:

a bobbin;
a wire wound around the bobbin;
at least one terminal electrically connected to the wire; and
an overmolded cap generally encapsulating the bobbin and the wire, the overmolded cap including a connector body formation partially encapsulating the at least one terminal; and
a pin extending along a longitudinal axis and having a first portion at least partially surrounded by the bobbin and adjacent a second portion, a valve seat including an aperture sized to receive the second portion of the pin so as to occlude the aperture, the first portion having a cross-sectional area greater than a cross-sectional area of the second portion, the first cross-sectional area being non-decreasing in a direction toward the second portion along the longitudinal axis, and the pin being displaceable along the longitudinal axis with respect to the bobbin when an electric current flows through the wire.

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22. (Previously Amended) The assembly according to claim 21, wherein the valve seat is disposed at an outlet of the assembly.

23. (Original) The assembly according to claim 22, further comprising:
an elastomeric member disposed on the second portion of the pin, the elastomeric effectively sealing the aperture of the valve seat to prohibit flow through the valve seat when the second portion is disposed in the aperture.

24. (Original) The assembly according to claim 23, wherein the elastomeric member comprises an O-ring.

25. (Currently Amended) A purge solenoid valve assembly having a valve driven by a solenoid, the assembly comprising:

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a bobbin;

a wire wound around the bobbin;

at least one terminal electrically connected to the wire; and

a pin extending along a longitudinal axis and having a first portion at least partially surrounded by the bobbin and adjacent a second portion, the first portion having a first cross-sectional area greater than a second cross-sectional area of the second portion, the first cross-sectional area being non-decreasing in a direction toward the second portion along the longitudinal axis, and the pin being displaceable along the longitudinal axis with respect to the bobbin when an electric current flows through the wire;

an overmolded cap generally encapsulating the bobbin and the wire, the overmolded cap including a connector body formation partially encapsulating the at least one terminal;

a body including a portion surrounding the overmolded cap, the body including first and second flow tubes; and

a valve seat being supported by the body, the valve seat including an aperture sized to receive the second portion of the pin so as to occlude the aperture [and thereby prevent fluid flow between the first and second flow tubes].

26. (Original) The assembly according to claim 25, wherein the overmolded cap comprises a snap feature, and the body comprises a lip matingly engaging with the snap feature.